

TAMILNADU FOREST DEPARTMENT

From
Tmt. C. Vidhya, I.F.S.,
District Forest officer,
Theni Forest Division,
Theni.

To
**Conservator of Forests and
Field Director,**
Srivilliputhur Megamalai Tiger
Reserve,
Madurai.

C. No. 7304/2013/D dated 26/04/2022

Sir,

Sub:- Forests - Forest (Conservation) Act, 1980 – Madurai Circle / Theni Forest Division – Proposal or diversion of 2.839 Ha. (now revised as 1.658 Ha.) of forest land for improvement of Theni Bye-Pass road connecting Dindigul – Theni road and Madurai Cochin road across Valkaradu Reserved Forests – Submission of Replies to the Queries raised by the GoI - Reg.

- Ref:-
1. The Principal Chief Conservator of Forests, Chennai Ref. No. TS4/39100/2019 dated 04.10.2021
 2. GOI, Environment, Forests & Climate Change, Department, Chennai F.No.4-TNB068/ 2020-CHN/942 dated 04.10.2021
 3. Divisional Engineer, Highways, Construction and Maintenance, Theni, Letter No. 180/2021/JD03 dated 18.03.2022
 4. Commissioner, Theni Allinagaram Municipality, Theni C.No. 3222/2021/H1 dated 07.03.2022

With reference to the above subject and reference cited, I submit that the User Agency has submitted the revised proposal for improvement works of Theni By-Pass road connecting Dindigul – Theni Road and Madurai – Cochin Road vide reference 3rd cited. In view of the revised proposal the area proposed for diversion has been revised from 2.839 Ha. to 1.658 Ha and the following are the replies received from the User Agency to the queries raised by the Government vide 2nd cited,

- A) As the UA informed that 10.50 mtrs width is required for construction of road against 23 mtr proposed in the application and recommended by State Government, the State Government shall look in to the matter and shall report actual length and width of the road essentially required, that is bare minimum specifying carriage way, shoulder etc;

The User Agency has submitted that "KM. 1/6 – 2/8 length of road is 1.2km Theni Bye – pass road center portion work completed and the widening portion for

PTO

the same length is pending due to permission awaiting from Forest Department. The actual requirement of 10.50m width for (Bituminous surface) construction of road against 23m proposal in the application because the project is pending from 2018-19. Hence the width of the road essentially needed is 13.50m (that is bituminous surface 10.50m and both side berms each (1.50 + 1.50m) is enough to complete the project.

Hence the revised Forest Land requirement is calculated in the table.

S.No.	Survey no and Classification	Length of Road in Chainage
1.	Valkaradu Reserved Forest (RF)	<u>1st Reach</u> 1. Ch:- 1+553 to 1+831 = 278 m <u>2nd Reach</u> 2. Ch:- 2+243 to 3+398 = <u>950 m</u> Total 1228 m

The length requirement is 1228m x 13.50 width = 16578 sqm or 1.658 Hectare. As per the revised calculation the actual requirement of Forest land is **1.658 Hectare** only. "

B) As directed in the earlier inspection of Regional Office (MoEF, Chennai), construction of wall all along the adjoining forest area opposite to bus stand shall be done. The state forest department shall identify vulnerable locations of people entry points into RF areas and propose cost estimate for construction of wall only in such locations

The User Agency has given Undertaking Certificate that "Highways (Construction and Maintenance) Department, Theni is hereby undertaking to bear the cost of work proposed to be construct the Earth protective Retaining wall opposite to the Theni Bus stand for a length of 500m as fixed by the Forest Department will be proposed under the Road safety scheme for the year 2022-2023." and "Highways (Construction and Maintenance) Department, Theni is hereby undertaking to bear the cost of work proposed under Forest Department for forming the fencing around the Valkaradu Reserve Forest for a length of 4.96 km and the estimate cost of Rs. 87.50 Lakhs workout by the Forest Department will be proposed under the Road safety scheme for the year 2022-2023."

C) The User Agency in consultation with the municipality, shall devise an effective waste management proposal all along the proposed road and surroundings of the bus stand and submit along with the current proposal

The following waste management has been proposed by the Commissioner, Theni-Allinagaram, Theni vide 4th cited as follows (Copy enclosed),

“தேனி-அல்லிநகரம் நகராட்சி, வார்டு எண். 32 மற்றும் 24-களுக்கு (தேனி புறவழிச்சாலை, தேனி புதிய பேருந்து நிலையம் மற்றும் சிவாஜி நகர்) அருகாமையில் தேனி வனக்கோட்டம், தேனி வனச்சரகம், வால்கரடு காப்புக்காட்டின் எல்லை பகுதிக்குள் பொதுமக்களால் குப்பைகள் மற்றும் கழிவுகள் கொட்டப்படுவதை தவிர்க்க ஒவ்வொரு 100 மீட்டர் இடைவெளியிலும் குப்பை தொட்டி வைக்கப்படும். அதில் நாள்தோறும் சேகரமாகும் கழிவுகளை Battery Operator vehicle மற்றும் தள்ளுவண்டிகளின் உபயோகத்துடன் துப்புரவு பணியாளர்களால் அப்புறப்படுத்த நடவடிக்கை மேற்கொள்ளப்படும்.

மேலும் அவ்வன எல்லைகள் ஓரம் குப்பைகள் கொட்டுவதை தவிர்க்க அறிவுரை வழங்கப்படுவதுடன், அத்துமீறினால் நடவடிக்கை எடுக்கப்படும் என்பதனை தெரியப்படுத்தி முன்னெச்சரிக்கை விளம்பர பலகைகள் பொது மக்களின் பார்வைக்கு அறியும்படி வைக்கப்படும். அத்துடன் வனப்பகுதியில் குப்பைகளை கொட்டுவது வனக்குற்றமாகும் என்ற விபரத்துடன் அதற்கான தண்டனைகள் விபரத்தினை தெரியப்படுத்தி தொடர்ச்சியாக ஒலிபெருக்கி மூலம் பொதுமக்களுக்கு தெரியப்படுத்தப்பட நடவடிக்கை மேற்கொள்ளப்படும்.

தேனி புதிய பேருந்து நிலையம் எதிர்புறம் (சிவாஜி நகர் செல்லும் சாலை) தேநீர் கடைக்கு பின்புறமுள்ள வனப்பகுதி மிகவும் மறைவான பகுதியாக (Hidden Spot) உள்ளதால் பொதுமக்கள் குப்பை கொட்டுவது, இயற்கை உபாதைகள் கழிப்பது போன்று ஒழிங்கின செயல்களில் ஈடுபடுகின்றனர். எனவே அப்பகுதி தொடர்ந்து மாசுபடுவதை தவிர்க்க அப்பகுதியில் சுமார் 100 மீட்டர் நீளத்திற்கு சிறப்பு நிரந்தர வேலி அமைத்து பாதுகாக்கப்படும்.

எனவே இவ்வாறு புதிய பேருந்து நிலைய வளாகம் மற்றும் அதனை சுற்றியுள்ள வனப்பகுதியில் திடக்கழிவு மேலாண்மை மேம்படுத்தப்படும் என்பதனை அன்புடன் தெரிவித்துக்கொள்கிறேன்.”

D)As rightly pointed out by APCCF, Madurai Circle in his inspection report “Movement of heavy and fast-moving vehicles on the road can cause disturbance to such wildlife and their habitat and tend to result in road kills as has been witnessed elsewhere. Further trash and garbage deposited by the general public on the sides of the road may also add to the discomfiture experienced by

wildlife leading to death of fauna, particularly reptilian fauna". in order to mitigate the problem specifically with respect to protecting wildlife and its habitat appropriate wildlife mitigation measures shall be proposed.

The User Agency has submitted that "Steps will be taken to provide necessary sign boards and speed limits boards with reflectors in the Valkaradu Forest Zone. All vehicle driving in the forest area to be requested to maintain maximum speed in 30 km/h. in the stipulated time 6:00 pm to 6:00 am. This type of measures are leads to avoid death of fauna and other living Forest animals."

Moreover, I submit that the following documents listed below are enclosed herewith,

- 1) Site Inspection Report & Photographs
- 2) Recommendation Report
- 3) Hard Copy of the revised Proposal received from the User Agency
(3 Copies)
- 4) Part - II of the proposal (3 copies)
- 5) Estimate for the Compensation Afforestation.

I also submit that all the above reports have been uploaded in the Forest Clearance Website; This is for favor of kind information.

This is for favour of kind information.

Yours faithfully,
Sd/- C.Vidhya
District Forest Officer,
Theni Forest Division, Theni.

/t.c.b.o/


Superintendent.

SITE INSPECTION REPORT OF THE DISTRICT FOREST OFFICER, THENI.

1. I have inspected the project site on 08.04.2022 and 25.04.2022.
2. This project is for the Improvement work of Theni Bye pass road connecting Dindigul – Theni Road and Madurai – Cochin Road across Valkaradu Reserved Forest of Theni Beat, Theni Section and Theni Range.
3. The project is revised: the width of the road essentially needed is 13.50m (that is bituminous surface 10.50m and both side berms each (1.50 + 1.50m) is enough to complete the project and the requested area by the user agency now is 1.658 Ha i.e., 1228 m length x 13.50m width.
4. The proposed road improvement works is at Theni Bye pass branching at Km. 68/8 (NH45 Extn. Dindigul – Kumuli Road) and joins at Km 75/6 of (NH49 Extn. Madurai – Cochin Road).
5. The proposed area is along the boundary of the Reserved Forest in most of the areas.
6. There is no spontaneous tree growth but 153 Nos of various species of plantation raised by the Forest Department is available, but no tree felling has been proposed by the User agency as these trees are available only in the side berms.
7. No major endangered species of flora and fauna found in the proposed area and also does not have any importance monuments which area archaeological / heritage site / defense establishment etc.
8. Since there is no other alternative feasible location available and there is an existing road, the diversion of 1.658 Ha. of Forest Land may be considered.

*Vijay.C
26/4/22*

**District Forest Officer,
Theni Forest Division, Theni.**

RECOMMENDATION OF DISTRICT FOREST OFFICER, THENI.

Legal status of forest land proposed for Diversion: Valkaradu RF.

I have inspected the project site on 08.04.2022 and 25.04.2022 and this project is for the Improvement work of Theni Bye pass road connecting Dindigul – Theni Road and Madurai – Cochin Road across Valkaradu Reserved Forest.

1. The area proposed by the user Agency is revised from 2.839 Ha to 1.658 Ha land and there is no alternative land for the proposed project except forest land.
2. The User Agency has not started any work proposed in Valkaradu RF.
3. The proposed road improvement works is at Theni Bye pass branching at Km. 68/8 (NH45 Extn. Dindigul – Kumuli Road) and joins at Km 75/6 of (NH49 Extn. Madurai – Cochin Road), the total length of the road is 1228m and total area needed is 1.658 Ha.
4. The width of the road has been reduced to 13.50 m from already proposed 23.50 m.
5. This project in Valkaradu RF has minimum effects on environment and more beneficial to the public.
6. The proposed area for diversion does not have any archeological and heritage related monuments.
7. There is no Tribal Rights affected in this project.
8. Flagship species like Tiger and Elephant are not available in this Reserved Forest. Hence there is no threat to major wildlife species.
9. The proposed improvement work of Theni Bye pass road is not fall under Eco Sensitive Zone.

This project in Valkaradu RF has minimum effects on environment and more beneficial to the public. Hence this project may be considered.

V. Vignaraj
26/4/22

**District Forest Officer,
Theni Forest Division, Theni.**

**ABSTRACT PROPOSAL FOR COMPENSATORY AFFORESTATION FOR COMPENSATION
AFFORESTATION FOR PROPOSAL FOR DIVERSION OF 1.658 HA OF FOREST LAND FOR THE
IMPROVEMENT WORK OF THENI BYE-PASS ROAD CONNECTING DINDIGUL - THENI ROAD AND
MADURAI - COCHIN ROAD ACROSS VALKARADU RESERVED FOREST IN THENI FOREST
DIVISION.**

Sl.No	Description of Work	Proposed Cost Estimate	Remarks
1	2	3	4
1	Raising Nursery	79912	-
	Contingency	88	
	TOTAL	80000	
2	Planting operation	598723	-
		1277	
	TOTAL	600000	
3	1st year Maintenance	202444	
		7556	
	TOTAL	210000	10% weightage towards esclation of labour wage rate during 2024-25
4	2nd year Maintenance	68611	
	Contingency	1389	
	TOTAL	70000	10% weightage towards esclation of labour wage rate during 2025-26
5	3rd year Maintenance	72375	
	Contingency	625	
	TOTAL	73000	10% weightage towards esclation of labour wage rate during 2026-27
6	4th year Maintenance	79613	
	Contingency	387	
	TOTAL	80000	10% weightage towards esclation of labour wage rate during 2027-28
7	5th year Maintenance	87574	
	Contingency	426	
	TOTAL	88000	10% weightage towards esclation of labour wage rate during 2028-29
8	6th year Maintenance	96331	
	Contingency	669	

Sl.No	Description of Work	Proposed Cost Estimate	Remarks
	TOTAL	97000	10% weightage towards esclation of labour wage rate during 2029-30
9	7th year Maintenance	105964	
	Contingency	1036	
	TOTAL	107000	10% weightage towards esclation of labour wage rate during 2030-31
10	8th year Maintenance	116561	
	Contingency	439	
	TOTAL	117000	10% weightage towards esclation of labour wage rate during 2031-32
11	9th year Maintenance	128217	
	Contingency	1783	
	TOTAL	130000	10% weightage towards esclation of labour wage rate during 2032-33
12	10th year Maintenance	141038	
	Contingency	962	
	TOTAL	142000	10% weightage towards esclation of labour wage rate during 2033-34
	GRAND TOTAL	1794000	

Raising cost for 664 Nos (Taller) seedlings including 10 year maintenance = Rs.17,94,000/-

Raising cost for 1 No (Taller) seedlings including 10 year maintenance = Rs.2701.80/-

Vuga.c
21/4/22
District Forest Officer,
Theni Forest Division, Theni.

8
26/04/2022

**WORK SCHEDULE FOR FOR COMPENSATORY AFFORESTATION COMPENSATION
AFFORESTATION FOR PROPOSAL FOR DIVERSION OF 1.658 HA OF FOREST LAND
FOR THE IMPROVEMENT WORK OF THENI BYE-PASS ROAD CONNECTING DINDIGUL
- THENI ROAD AND MADURAI - COCHIN ROAD ACROSS VALKARADU RESERVED
FOREST IN THENI FOREST DIVISION.**

Sl. No	Description of Work	Period of Work
1	2	3
1	Raising Nursery	Jun 2022 to Oct 2023
2	Planting operation	November 2023 to December 2023
3	1st year Maintenance	September 2024 to March 2025
4	2nd year Maintenance	September 2025 to March 2026
5	3rd year Maintenance	September 2026 to March 2027
6	4th year Maintenance	September 2027 to March 2028
7	5th year Maintenance	September 2028 to March 2029
8	6th year Maintenance	September 2029 to March 2030
9	7th year Maintenance	September 2030 to March 2031
10	8th year Maintenance	September 2031 to March 2032
11	9th year Maintenance	September 2032 to March 2033
12	10th year Maintenance	September 2033 to March 2034

Vuga-c
26/4/22
District Forest Officer,
Theni Forest Division, Theni.

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26/4/2022

ESTIMATE FOR RAISING MISCELLANEOUS NURSERY FOR COMPENSATION AFFORESTATION FOR PROPOSAL FOR DIVERSION OF 1.658 HA OF FOREST LAND FOR THE IMPROVEMENT WORK OF THENI BYE-PASS ROAD CONNECTING DINDIGUL - THENI ROAD AND MADURAI - COCHIN ROAD ACROSS VALKARADU RESERVED FOREST IN THENI FOREST DIVISION.

Size of Bags 30 x 45 CM No. of Seedlings 664
Wage Rate as per FSR Rs. 460.25 Casualty 10% 66

Name of species to be planted **Total seedlings** **730**

Naval, Bamboo, Malai Vembu, Pungan,, Thony

S. No.	Quantity	Description of work	FSR Item No.	Rate	Per	Amount (Rs.)
PART-I- SMALL SIZE BAGS 13x25 CM						
1	109.50 M ²	Preparation of nusery site by clearing and levelling the site for forming standard bed of size 10 m X 1m	4.1 2021-22	1113.81	200 M ²	610
2	1.46 Kgs.	Cost of seeds	Local Rate	250.00	1 Kg	365
3	730 Nos.	Cost of 13 x 25 x 250 G Poly bags including GST	2018-19 Tender Rate	1062.00	1000 Nos.	775
4	1 Beds	Forming of germination bed of size 10 m X 1 m X 30 cm by heaping the soil	MTP Model Estimate 2013-14	41.85	1 Each	42
5	1 Beds	Watering the germination beds twice daily with rosecan - 15 days.	4.5.1	377.41	10 beds	566
	2021-22			1 day		
6	1 Beds	Watering the germination beds once daily with rosecan - 30 days.	4.5.2	188.70	10 beds	283
	15 days		2021-22		1 day	
7	730 Nos.	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture	MTP Model Estimate 2013-14	750.00	1 M ³	146
	0.195 M ³					
8	730 Nos.	Collection and supply of farmyard manure for filling bags	MTP Model Estimate 2013-14	750.00	1 M ³	149
	0.199 M ³					

S. No.	Quantity		Description of work	FSR Item No.	Rate	Per	Amount (Rs.)
9	730	Nos.	Preparation of soil mixture by breaking clods, sieving and mixing of fertile earth and farmyard manure, and filling in polythene bags arranging bags in beds and pricking out the seedlings	4.6.4 2021-22	2061.92	1000 Nos.	1505
10			Watering the container plants with rose cane				
a)	730	Nos.	Watering twice daily	4.10.4	105.86	1000 Nos.	1159
	15	days		2021-22		1 Day	
b)	730	Nos.	Once daily	4.11.4	52.93	1000 Nos.	1159
	30	days		2021-22		1 Day	
c)	730	Nos.	Alternate days (136 Days))	4.11.4	52.93	1000 Nos.	2627
	68	days		2021-22		1 Day	
11	730	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags- shifting to be done once in 21 days	4.15.4	234.73	1000 Nos.	343
	2	Shifts		2021-22		1 Shift	
12	2	Nos	Forming temporary shade pandals @ 10 M x 1 M including collection of Grass materials etc.,	4.9 2021-22	460.25	1 Nos.	921
PART-II BIGGER SIZE BAGS 30 X 45 CM X 600 G							
13	730	Nos.	Cost of polythene bags of size 30 X 45 X 600 G Poly bags	Tender Rate	6549.00	1000 Nos.	4781
14	1.02	M ³	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture- 1/4th of the total volume (excluding the volume of earth in 13 x 25 cm containers)	MTP Model Estimate 2013-14	750.00	1 M ³	765
15	0.25	M ³	Cost and transport of Farmyard manure for filling bags 1/5th of the total volume	MTP Model Estimate 2013-14	750.00	1 M ³	188

S. No.	Quantity		Description of work	FSR Item No.	Rate	Per	Amount (Rs.)
16	730	Nos.	Preparation of soil mixture by breaking clods. sieving and mixing of fertile earth (including red soil, silt and sand etc., according to requirements) and farmyard manure, and filling in polythene bags arranging bags in beds and pricking out the seedlings (excluding cost of earth and farmyard manure)	4.6.7 2021-22	13149.34	1000 Nos.	9599
17	73.00	Kgs.	Cost of vermicasting @ 100gm / container	Research rate	10.00	1 Kg	730
18	32.85	Kgs.	Cost of VAM @ 45 gm / container		18.00	1 Kg	591
19	7.3	Kgs.	Cost of Bio-fertilizers such as Azospirillum and Phosphobacteria @ 6gm / container		27.00	1 Kg	197
20	7.3	Kgs.	Cost of Bio-fertilizers such as Phosphobacteria @ 6gm each / container		27.00	1 Kg	197
21	730	Man Days	Labour cost for transplanting seedlings from 13 x 25 cm container bags into 30 x 45 cm containers	FSR 2021-22	460.25	100 No. Man Day	3360
22	730	Nos.	Cost of Vertical stick in the size of 2.50 M per seedlings	MTP Model Estimate 2013-14	10.00	1 No.	7300
23	730	Nos.	Cost of horizontal stick seedlings	MTP Model Estimate 2013-14	1.50	1 No.	1095
24	730	Nos.	Tying plants to the vertical stick once in a month	MTP Model Estimate 2013-14	0.50	1 Nos.	730
	2	Times				1 Time	
25	730	Nos.	Pruning the side branches of the seedlings once in a month	MTP Model Estimate 2013-14	1.00	1 Nos.	1460
	2	Times				1 Time	

S. No.	Quantity	Description of work	FSR Item No.	Rate	Per	Amount (Rs.)
26		Watering the container plants with rose cans watering regime as per the TAP ME approved by PCCF, Chennai ref. No. J1/57395/2003 dated:12.12.2003				
a)	730 Nos.	Watering twice daily	4.10.7	257.74	1000 Nos.	5645
	30 days		2021-22		1 day	
b)	730 Nos.	Once daily	4.11.7	128.87	1000 Nos.	2822
	30 days		2021-22		1 day	
c)	730 Nos.	Alternate days	4.11.7	128.87	1000 Nos.	7056
	75 days		2021-22		1 day	
27	730 Nos.	Shifting the container place once in 21 days- first shift after 45 days from the date of transplanting 5 times.	4.15.7	1238.07	1000 Nos.	5423
	6 Times		2021-22		1 day	
28	10.95 Nos.	Cost and application of Neem Cake @ 15 Grams per seedlings	Local Rate	42.00	1 Kgm	460
29	18.25 Nos.	Cost and application of Peanut Cake @ 25 Grams per seedlings	Local Rate	65.00	1 Kgm	1186
30	730 Nos.	Wages to Nursery Protection Mazdoor	FSR	460.25	20000 Nos.	3041
	181 Man Days		2021-22		1 day	
31	730 Nos.	Wages to Nursery Protection Mazdoor	FSR	506.28	20000 Nos.	2772
	150 Man Days		2022-23 (escalation)		1 day	
32	1	Erection of Name Board with seedlings details	LS			1000
33	LS	Application of pesticides, panchakavya, infecticides etc.,	LS			1200

S. No.	Quantity	Description of work	FSR Item No.	Rate	Per	Amount (Rs.)
34	LS	Contingencies for meetout unforeseen expenses photos, and documentations like journals etc.,	LS			399
		Total cost Rs.				72647
		Add-10% Escalation for the year 2022-23				7265
		GRAND TOTAL (Rs.)				79912

Rate per seedlings Rs. 109.47

Specification:

Rates for Sl. No. 1, 5, 6, 9, 10, 11, 12, 16, 21, 26, 27, 30 and 31 are provided as per approved FSR of Madurai Circle for the year 2021-22

Rates for Sl. No. 2, 28, 29 rate provided for collection of miscellaneous seeds in the average of local rate

Rates for Sl. No. 4, 22, 23, 24 and 25 are provided as per the Model Estimate approved by the PCCF, Chennai under MTP Scheme during the year 2013-14.

Rates for Sl. No. 3 and 13 Cost of polythene bags are provided as per Lowest Tender rate quoted by the Co-operative Societies.

Rates for Sl. No. 7, 8, 14, 15 rate provided for collection and supply of soil, sand, farm yard manure and transportation charges are provided as per the Model Estimate approved by the PCCF, Chennai under MTP Scheme during the year 2013-14 with escalation of the material cost.

Rates for Sl. No. 32, 33, 34 This item of work was provided for expenditure for taking photos and documentation, and purchase of Gypsum, Insecticides, Pesticides and Panchagavya etc. as per the local market rate.

Since all the items included in this estimate are very essential, and prepared without exceeding the Pro-Rata.

Vuga-c
22/4/22
District Forest Officer,
Theni Forest Division, Theni.

②
26/04/2022

**ESTIMATE FOR PLANTING OF TALLER RIVERINE SEEDLINGS
FOR COMPENSATION AFFORESTATION FOR PROPOSAL FOR DIVERSION OF 1.658 HA OF
FOREST LAND FOR THE IMPROVEMENT WORK OF THENI BYE-PASS ROAD CONNECTING
DINDIGUL - THENI ROAD AND MADURAI - COCHIN ROAD ACROSS VALKARADU RESERVED
FOREST IN THENI FOREST DIVISION.**

Species : Naval, Bamboo, Malai Vembu, Pungan,,
Thony No. of seedlings : 664 Nos.

Size of poly. Bags: 30x45cm 10% Casualties 66 Nos.

TOTAL 730 Nos.

S. No.	Qty	Description of work	FSR Item No.	Rate	Per	Amount
1	664 No.	Digging of 60 cm ³ pits in hard gravelly soil in tank bed areas during rainy season	5.8.2	3409.54	100 No.	22639
2	332 Kg	Cost & transport of Poultry Manure @ 500 gm per plant	L R	5000.00	1 MT	1660
3	664 No.	Application of Poultry Manure @500 gm per plant by mixing in the pit before planting including cost and transport -1Mazdoor for 200 Nos.	FSR - L 2020-21	441.65	1 MD 200 No.	1466
4	664 No.	Cost of Bio fertilizer including cost of Application- Vermicompost-10Kg.,Bio fert5ilzera-100gms,Vam-100gms.	NHAI ME	7.70	1 No.	5113
5	730 No.	Transporting saplings (transport to the radius of 40km) excluding loading and unloading	NHAI ME	10.00	1 No.	7300
6	730 No.	Loading and unloading the container seedlings (30x45 cm) in private lorry upto a lead of 2 Kms excluding hire charges for the vehicles.	5.11.7	1453.03	1000 No.	1061

S. No.	Qty	Description of work	FSR Item No.	Rate	Per	Amount
7	730 No.	Transporting of Polythene container Seedlings by head loads in the place where approach roads not available to take vehicles to planting site 0.5 km	5.13.2	15016.10	1000 No.	10962
8		Distrbution of polythene container seedlings from foot of the hills or from where seedlings are stacked to the planting spot In hills and hillocks where the lead is,				
i	66 No.	Upto100 Meters	5.16.1	7949.70	1000 No.	525
ii	166 No.	Upto 200 Meters	5.16.2	9795.00	1000 No.	1626
iii	166 No.	Upto 500 Meters	5.16.3	23186.63	1000 No.	3849
iv	266 No.	Upto1000 Meters	5.16.4	33565.40	1000 No.	8928
9	664 No.	Planting the container seedlings by refilling pits of size 60 cm ³	5.22	755.22	100 No.	5015
10	66 No.	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	2459.99	100 No.	1624
11	664 No.	Weeding & Scrapping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil.	5.24	543.23	100 No.	3607
12	664 No.	Forming Catch water drains for each plant of size 0.90x0.45x0.30m size in hillocks in hard gravelly soil.	5.26	3020.89	100 No.	20059

S. No.	Qty	Description of work	FSR Item No.	Rate	Per	Amount
13	664 No.	Supply of MESH Planet Iron Tree Guard Fencing Net 18 Guage HDPE 3 Feet Height x 5 Feet Length UV Stabilized.	Local Price	600.00	1 No.	398400
14	10 days	Engaging Protection Mazdoor in CA land for Placing of Tree Guard	Wage Rate	441.65	1 No.	4417
15	LS	Contingecies and unforeseen expenditure for photos and documentation etc.,	LS			686
		TOTAL				498936
		Add-20% Escalation for the year 2023-24				99787
		GRAND TOTAL				598723

Rate per seedlings

Rs. 820.17

SPECIFICATION :

- 1) This Estimate has been prepared based on the model estimate of MTP approved by the PCCF (HOD) during 2019-20
- 2) **Sl. No. 1, 3, 6, 7, 8, 9, 10,11,12 & 14 (Total 10 Nos.):** The rates provided in these items are as per the FSR 2020-21 of Madurai Circle.
- 3) **Sl. No. 4,5 :** These item of works was approved in the above said model estimate:and the rate was provided as per the NHAI Model Estimate
- 4) **Sl. No. 2, 13, 15** rate provided based in the average of local rate

Vignaraj
26/07/2022

District Forest Officer,
Theni Forest Division, Theni.

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26/07/2022

ESTIMATE FOR 1st YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION FOR COMPENSATION AFFORESTATION FOR PROPOSAL FOR DIVERSION OF 1.658 HA OF FOREST LAND FOR THE IMPROVEMENT WORK OF THENI BYE-PASS ROAD CONNECTING DINDIGUL - THENI ROAD AND MADURAI - COCHIN ROAD ACROSS VALKARADU RESERVED FOREST IN THENI FOREST DIVISION.

No of Casualty = 66

Size of Polybags = 30x45 x 600g

Wage rate (From 4.5.18) = Rs.

460.25

S. No	Quantity	Unit	Name of Work	FSR / SSR	FSL	Rate	Per	Amount	
Planting Operation									
1	0.2	M.T.	Cost and transport of Farm yard manure each bags - 200 gms. Per plants (10% casualty)	MTP Model estimate	--	1500.00	1	M.T.	300
2	66	Nos.	Transporting saplings (transported to the radius of 40 kms) excluding loading and unloading	MTP Model estimate	--	7.00	1	No	462
3	66	Nos	Loading & unloading the container seedlings (30x45 cm) in private lorry upto a lead of 2kms excluding hire charges for the vehicles.)	5.11.7	3.29	1514.22	1000	No	100
4	66	Nos	Distribution of saplings from where seedlings are stocked to the planting spot upto 100 mtrs	5.15.1	10	4602.50	1000	Nos	304
5	66	Nos	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	5.57	2459.99	100	Nos	1624
6	664	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	566.11	100	Nos	3759
7	109500	litres	Cost of water @ 10 litres per seedlings (15 watering day) at the rate once in 6 days. (10x1250x15=187500 litres)	MTP Model estimate	-	1200.00	12000	litres	10950
8	66	Nos	Watering the plants in the day of planting (one watering) and once in 6 days during January to March @ one mazdoor for 200 plants/ watering day (15 watering days)	FSR 2021-2022 Wage rate	-	460.25	200	Nos	152

S. No	Quantity	Unit	Name of Work	FSR / SSR	FSL	Rate	Per	Amount
9	300	M.days	Engaging Protection Mazdoor from April to March at 25 days/ Month (1 No./300 days)	FSL wage rate	-	460.25	1 M.Days	138075
TOTAL								155726
Add 30% of escalation for the Year 2024 to 2025								46718
Grand Total for 1st year								202444

Vijaya-c
22/1/22

District Forest Officer,
Theni Forest Division, Theni.

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26/01/2022

ESTIMATE FOR 2nd YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION FOR COMPENSATION AFFORESTATION FOR PROPOSAL FOR DIVERSION OF 1.658 HA OF FOREST LAND FOR THE IMPROVEMENT WORK OF THENI BYE-PASS ROAD CONNECTING DINDIGUL - THENI ROAD AND MADURAI - COCHIN ROAD ACROSS VALKARADU RESERVED FOREST IN THENI FOREST DIVISION.

No. of seedlings will be planted =664

Size of Polybags = 30 x 45x 600g

Survival estimated

631

2020-21 FSR Rate = Rs.460.25

95% =

S. No	QTY	Unit	Name of Work	FSR / SSR	FSL	Rate	Per		Amount
1	631	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	566.11	100	Nos	3572
2	631	Nos	Watering the plants in the day of planting (one watering) and once in 6 days during January to March 2019 @ one mazdoor for 200 plants/ watering day (15 watering days)	FSR 2021-2022 Wage rate	-	460.25	200	Nos	1452
3	94650	litres	Cost of water @ 10 litres per seedlings (15 watering day) at the rate once in 6 days. (10x1080x15=162000 litres)	MTP Model estimate	-	1200.00	12000	litres	9465
4	75	days	Engaging Protection Mazdoor in CA land - 3 months	Wage rate	1	460.25	1	Nos	34519
TOTAL Prorata for 2nd year maintenance									49008
Add 40% of escalation for the year 2025 to 26									19603
Prorata for next year									68611

SPECIFICATION

This estimate has been prepared based on the MTP Model estimate, FSR - 2021-22. The estimate may kindly be sanctioned at the earliest.

Vignesh
26/4/22

District Forest Officer,
Theni Forest Division, Theni.

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26/04/22 L

**ESTIMATE FOR 3rd YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION FOR
COMPENSATION AFFORESTATION FOR PROPOSAL FOR DIVERSION OF 1.658 HA OF FOREST LAND
FOR THE IMPROVEMENT WORK OF THENI BYE-PASS ROAD CONNECTING DINDIGUL - THENI
ROAD AND MADURAI - COCHIN ROAD ACROSS VALKARADU RESERVED FOREST IN THENI FOREST
DIVISION.**

No. of seedlings will be planted =664

Size of Polybags = 30 x 45 x 600g

Survival estimatd
90% = 598

FSR 2020-21= Rs.460.25

S. No	QTY	Unit	Name of Work	FSR / SSR	FSL	Rate	Per		Amount
1	598	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.2	566.11	100	Nos	3385
2	598	Nos	Watering the plants in the day of planting (one watering) and once in 6 days during January to March 2019 @ one mazdoor for 200 plants/ watering day (15 watering days)	FSR 2021-22	-	460.25	200	Nos	1376
3	89700	litres	Cost of water @ 10 litres per seedlings (15 watering day) at the rate once in 6 days. (10x1023x15=153450 litres)	MTP Model estimate	-	1200.00	12000	litres	8970
4	75	days	Engaging Fire Protection watcher in CA land - 3 months	Wage rate	1	460.25	1	Day	34519
TOTAL Prorata for 3 rd year maintenance									48250
Add 50% of escalation for the year (2026-27)									24125
prorata for next year									72375
4 th year maintenance add 10% escalation (2027-28)									7238
4 th year maintenance cost									79613

5 th year maintenance add 10% of escalation (2028-29)	7961
5 th year maintenance cost	87574
6 th year maintenance add 10% escalation (2029-30)	8757.4
6 th year maintenance cost	96331
7 th year maintenance add 10% of escalation (2030-31)	9633.1
7 th year maintenance cost	105964
8 th year maintenance add 10% escalation (2031-32)	10596
8 th year maintenance cost	116561
9 th year maintenance add 10% of escalation (2032-33)	11656
9 th year maintenance cost	128217
10 th year maintenance add 10% of escalation (2033-34)	12822
10 th year maintenance cost	141038

SPECIFICATION

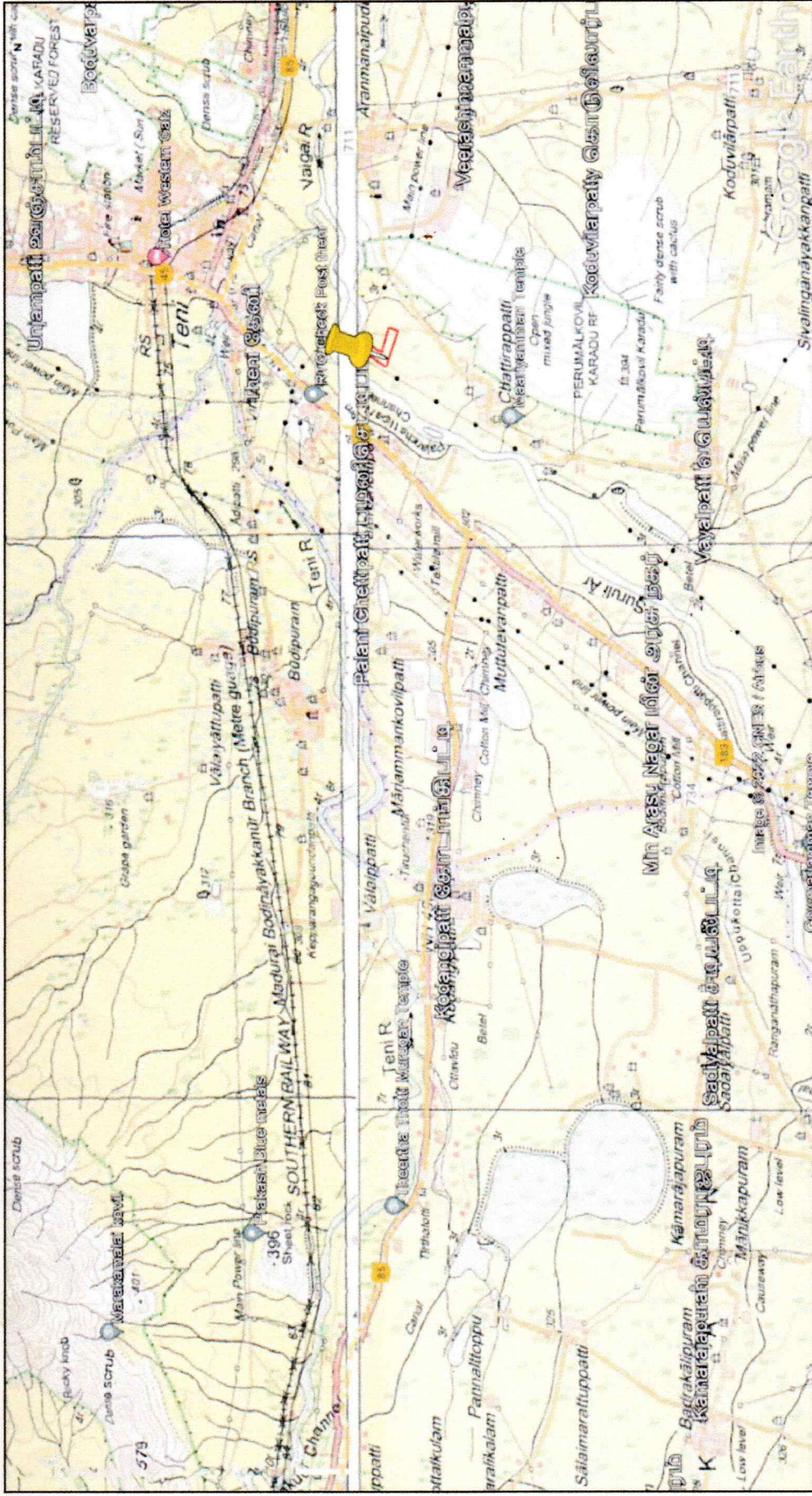
This estimate has been prepared based on the MTP Model estimate, FSR - 2021-22. The estimate may kindly be sanctioned at the earliest.

Vignaraj
26/4/22

District Forest Officer,
Theni Forest Division, Theni.

[Signature]
26/4/22

Proposed area for Compensation Afforestation for Diversion of 1.658 Ha. of forest land for improvement of Theni By-Pass Road connecting Dindigul - Theni road and Madurai - Cochin Road across Valkaradu Reserved Forest in Theni Forest Range of Theni Forest Division, Theni.



Legends



Proposed area for Compensation Afforestation
Proposed CA Area = 3.316 HA

GPS Reading

9°59'50.84"N
77°28'20.22"E

DISTRICT FOREST OFFICER
THENI DIVISION, THENI

Handwritten signatures and dates:
K 26/11/2022
S 26/11/2022
Nagar

Certificates from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view

The User Agency was handed over 8.59 ha. in Sy. No. 1511/1 in Veerapandi Village of Theni District to forest department as a compensatory land for the diversion as per the original proposal and it was notified under Section 4 as Perumal Kovil Karadu Extn and the notification under section 16 is under process.

Since, the User Agency has reduced the proposed area for diversion is 1.658 Ha. Compensation Afforestation has been selected from the above land for an area of 3.316 Ha.

It is to certify that the above land identified for the Compensation Afforestation in Veerapandi Village is suitable to carry out plantation.

Vuga-c

District Forest Officer,
Theni Forest Division, Theni.

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26/4/2022

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26/04/2022